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	Application No.	Applicant(s)		
Notice of Allowability	10/708,331	HSIEH ET AL.		
	Examiner	Art Unit		
	James W. Cranson	2875	·	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>amendment filed 5/17</u>	<u>7/2006</u> .			
2. The allowed claim(s) is/are 1-20.	·			
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No		tion from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	• •	complying with the red	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperse 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTO-9 Amendment / Comment or in the O . 84(c)) should be written on the drawin	ffice action of gs in the front (not the	e back) of	
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F			Note the	
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	Patent Application (PTO-152)		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	·	6. Interview Summary (PTO-413), Paper No./Mail Date		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 		7. X Examiner's Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	8. 🔀 Examiner's Statement of Reasons for Allowance		
	9.			
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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Winston Hsu, Patent Agent No 41,526 on 05/26/2006.

The application has been amended as follows:

Claim 1, line 14, delete "overlapping", insert "overlaps", line 15, delete "entering" insert "enter".

Claim 13, line 4, delete "overlapping", insert "overlaps", line 5, delete "entering" insert "enter".

Claim 19, line 3, delete "overlapping", insert "overlaps", line 4, delete "entering" insert "enter"

Cancel new claim 21.

The following is an examiner's statement of reasons for allowance: Instant application claims and discloses a direct back light unit with heat exchange.

Claim 1 includes a backlight unit comprising: a light source generator positioned in a backside of a display panel for providing light beams to display panel; a diffuser positioned between the light source generator and display panel for uniformly scattering light beams from

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the light source generator to display panel; and a housing enclosing the light source generator and connecting to diffuser for reflecting the light beams to the diffuser, housing further comprising a heat pipe for being a heat transfer interface between back light unit and an external environment wherein heat pipe overlaps diffuser in a direction as light beams enter display panel from light source generator.

The combination of claimed limitations is not found or taught in the art of record. In particular, the limitation that the heat pipe overlaps the diffuser in a direction as the light beams enter the display from the light source generator is not found or taught in the primary art of record.

Claims 2-12 depend directly or indirectly from claim 1, add further limitations and are allowable for the same reasons.

Claim 13 has substantially the same limitations as claim 1 and adds that the heat pipe has a substantially arc surface.

Claim 13 is allowable for same reasons as claim 1.

Claims 14-18 depend directly or indirectly from claim 1, add further limitations and are allowable for the same reasons.

Claim 19 has substantially the same limitations as claim 1 and adds that the heat pipe has a rough surface.

Claim 19 is allowable for same reasons as claim 1.

Claim 20, depends from claim 19, adds further limitations and is allowable for the same reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Cranson whose telephone number is 571-272-2368. The examiner can normally be reached on Mon-Fri 8:30A.M.- 5:00P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandy O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800

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